

**REMARKS**

Claims 163-182 are pending in the Application.

Claims 163-182 are rejected.

Claim 181 is amended herein.

Claim 182 is cancelled without prejudice.

**I. REJECTIONS UNDER 35 U.S.C. § 112, ¶ 2**

Examiner has rejected Claims 163-180 under 35 U.S.C. § 112, ¶ 2, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Examiner contends that “[i]t is not clear what is meant by ‘activating’ the catalyst.” Office Action at 2.

Applicant respectfully submits that ‘activating’ is not indefinite. The Applicant utilized this term in its ordinary and customary meaning that would be attributed to those words by persons skilled in the relevant art of the Application. When an Applicant uses a term in its ordinary and customary meaning, it is well settled that dictionaries can be utilized to provide such ordinary and customary meaning. *See, e.g., Inverness Medical Switzerland GmbH v. Princeton Biomeditech Corp.* 309 F.3d 1365, 64 U.S.P.Q.2d 1926 (Fed. Cir. 2002) (citing *Webster’s Dictionary* to determine the ordinary and customary meaning of the term “mobility”).

“Activating” is a well known term in catalyst preparation, such as to make a catalyst active for carrying out the reaction. *The New Lexicon Webster’s Dictionary of the English Language*, 1988 Edition, Lexicon Publications, Inc., New York, (“Webster”) defines “activate” in the chemical context as “to make particularly active, esp. by chemical reaction.” (*Webster’s* at p. 8, excerpts of which are attached hereto at Exhibit A).

The Application utilizes the term ‘activating’ consistent with this definition. For example, the Application states: “Optionally this entrained particle stream is subjected to a reduction step to further activate the catalyst (e.g., heating from 300-500°C in H<sub>2</sub>).” (Application

at page 44, line 30 to page 45, line 1) Additionally, Claims 163-180 recite elements that further delineate “activating” in consonance with the written description in the Application.

Therefore, as a result of the foregoing, Applicant respectfully requests that the Examiner withdraw his rejection of Claims 163-180, under 35 U.S.C. § 112, ¶ 2, as being indefinite.

## II. REJECTIONS UNDER 35 U.S.C. § 102(a)

Examiner has rejected Claims 181 and 182 under 35 U.S.C. § 102(a) as being anticipated by Dai, *et al.*, “Single-wall Nanotubes Produced by Metal-Catalyzed Disproportionation of Carbon Monoxide,” Chemical Physics Letters 260 (1996) pp. 471-475 (“Dai”). Examiner contends that “*Dai* teaches SWNTs on a Mo catalyst. No differences are seen in the structure; viewing the material of *Dai* ‘upside down’ puts the catalyst under (and ‘supporting’) the nanotube.” Office Action at 2.

With regard to Claims 181 and 182, Claim 181 has been amended to require the claimed catalytic metal be a ~~Group VI metal~~ “selected from the group consisting of chromium (Cr) and tungsten (W). *Dai* does not disclose such catalysts.

As to Claim 182, this Applicants have cancelled this claim without prejudice..

Therefore, as a result of the foregoing, Applicant respectfully requests that the Examiner withdraw his rejection of Claim 181 under 35 U.S.C. § 102(a) as being anticipated by *Dai*.

## V. CONCLUSION

As a result of the foregoing, it is asserted by Applicant that the Claims in the Application are now in a condition for allowance, and respectfully request allowance of such Claims.

Applicant respectfully requests that the Examiner call Applicant’s attorney at the below listed number if the Examiner believes that such a discussion would be helpful in resolving any remaining problems.

Respectfully submitted,

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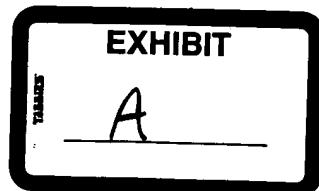
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## acromegaly

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pharmaceutical products etc. [fr. L. *acer* (*acris*), sharp + *clere*, to smell] **acromegaly** (əkrəmēgəlē) *n.* (med.) a disease caused by excessive secretion of growth hormone from the pituitary gland in adult life, and manifested by headache and enlargement of the hands, feet and jaw [fr. Gk *akros*, extremity + *megale*, large] **acronym** (əkrənōm) *n.* a name made up of the initial letters of an official title. e.g. UNESCO [fr. Gk *akros*, upper + *onoma*, name (modeled on 'homonymy')] **a-crop-e-tal** (əkrōpīt'l) *adj.* (bot.) of leaves, flowers or roots developing successively from an axis so that the youngest arise at the apex [fr. Gk *akros*, peak + L. *petere*, to seek] **a-crop-o-lis** (əkrōpōlēs) *n.* a fortified citadel at a high point in a Greek city Acropolis the hill citadel of Athens, site of the Parthenon and Erechtheum [fr. Gk *akros*, highest + *polis*, city] **acrosin** (əkrəsīn) *n.* (biol.) enzyme involved in breaking down proteins to penetrate protective layers of an ovum **across** (əkrōs, əkrōz) *1. adv.* crosswise, folded twice across || from side to side, they swam across twice || to or on the other side, to go across by ferry *2. prep.* on the other side of, the house across the street || from one side to the other side of, the cable goes across the river to come across to meet or find by chance || (pop.) to pay out money || (pop.) to give out information to get across (someone) (Br., pop.) to irritate (someone) **across-the-board** (əkrōsōbōrd, əkrōsōbōrd, əkrōsōbōrd) *adj.* (of a wager) covering the chances that the horse bet on will win, place or show || (of an industrial award etc.) having general application **acrostic** (əkrōstik, əkrōstik) *n.* a composition, usually in verse, in which the initial, final or other prearranged letters in each line when taken together spell out a word [fr. L. *acrostichus* fr. Gk] **acro-roter** (əkrōtār) *n.* (archit.) a pedestal placed above the lower corners or apex of a pediment to receive a statue or other ornament [Fr. *acrotère* fr. L. fr. Gk] **acrylic** (əkrilik) *1. adj.* of or relating to acrylic acid, acrylic fiber or acrylic resin *2. n.* acrylic resin || acrylic fiber [fr. ACROLEIN] **acrylic acid** a colorless, corrosive liquid obtained by oxidation from acrolein **acrylic fiber** any of various synthetic fibers obtained by polymerization of acrylonitrile **acrylic resins** any of various thermoplastic resins obtained by the polymerization of the esters of amides of acrylic acid or methacrylic acid **acry-lo-ni-trile** (əkrōlōnātrīl, əkrōlōnātrīl) *n.* a poisonous, colorless, flammable liquid,  $\text{CH}_2=\text{CHCN}$ , used in the polymerization of plastics, textile fibers etc. **ac-sim-i-ble** (əksimātik) (acronym) for Chief of Staff for Intelligence, computer language, storage-and-retrieval system used by the office **act** (əkt) *1. n.* a deed || the doing of a deed, caught in the act || one of the main divisions of a play || a feature in a variety show, circus etc. || a law passed by a legislative body [Fr. *acte*] *2. v.t.* to perform (a play or a part in a play) || to play the part of, stop acting the fool || *v.i.* to behave in a certain way, to act wisely || to fulfil a particular function, to act as arbitrator || to intervene effectively, the police acted quickly to prevent his escape || to produce an effect, the acid acts on the metal to act for to represent with full authority [fr. L. *agere* (*actus*), to do] **Actaeon** (əktē'ōn) (Gk mythol.) a hunter who surprised Artemis bathing. He was punished by being changed into a stag, and was killed by his own hounds **ACTH** a pituitary hormone which stimulates the cortex of the suprarenal gland [**A(DRENOIC)(ORTICO)TRIPOHIC(HORMONE)**] **acting** (əktīng) *1. adj.* doing temporary duty for someone else, the acting mayor *2. n.* the art of performing in plays or films || this as a profession **acting copy** a copy of a play used by the actors showing cuts, producer's directions, cues etc. **act-in-i-a** (əktīnī'ē) *pl.* **actin-i-ae** (əktīnī'ēz) *n.* actinias *n.* a sea anemone [Mod. L. fr. Gk *aktis* (*aktinos*), a ray] **actin-ic** (əktīnīk) *adj.* possessing photochemical properties [fr. Gk *aktis* (*aktinos*), a ray] **actinic rays** electromagnetic radiations capable of producing photochemical changes and

including infrared, ultraviolet and X rays as well as visible light **acti-nide** (əktīnīd) *n.* a radioactive element with an atomic number in the series from 89–103 **acti-nide series** (əktīnīd) a series of radioactive elements starting at actinium (at. no. 89) and continuing to uranium (92) and the transuranic elements. There are analogies with the lanthanum or rare-earth series (\***PERIODIC TABLE**) [fr. Mod. L. fr. Gk *aktin-*, ray] **acti-ni-um** (əktīnī'ūm) *n.* a radioactive element (symbol Ac at no. 89 mass of isotope of longest known half-life 227). It occurs in uranium ores and can be manufactured from radium by transmutation in nuclear reactors [fr. Gk *aktis* (*aktinos*), a ray] **acti-ni-ometer** (əktīnōmītər) *n.* (phys.) instrument for measuring intensity of radiation by measuring the fluorescence produced by it **acti-no-mor-phic** (əktīnōmōrf'ik) *adj.* radically symmetrical [cf. ZYGOMORPHIC] [fr. Gk *aktis* (*aktinos*), ray + *morphē*, shape] **acti-no-my-cete** (əktīnōmīsētē, əktīnōmāsētē) *n.* any of various aerobic or anaerobic bacteria of fam. *Actinomycetaceae*, some of which are pathogenic for men and animals [ult. fr. Gk *aktis* (*aktinos*), ray + *mukēs*, fungus] **acti-non** (əktānpn) *n.* (chem.) an inert gaseous radioactive isotope of radon (symbol An, at. no. 86, half-life 3.92 secs) [fr. ACTINUM] **acti-no-spec-to-cin** (əktīnōspēktōsīn) *n.* broad-spectrum antibiotic drug obtained from soil fungus, used in treating penicillin-resistant venereal diseases **ACTION** (əktōn) an independent U.S. government agency that administers such voluntary programs as the Peace Corps, VISTA (Volunteers in Service to America), the Senior Companion Program, the Foster Grandparent Program, University Year for Action, and others. The Peace Corps, an autonomous agency within ACTION, was created in 1961 by Pres. Kennedy. Volunteers spend 2 years in a foreign country, working in agriculture, rural development, health, and education. VISTA is the domestic counterpart of the Peace Corps **action** (əktōn) *n.* the process of doing, acting || something done, a deed || effective intervention, his prompt action prevented an accident || the working of one thing on another, the action of an acid on a metal || enterprise, deeds as compared with words, a man of action || the operating mechanism of a piano, typewriter, pump, gun etc. || a bodily movement performed repeatedly, leg action || the series of events in a play or novel, the action takes place in Europe || (law) a proceeding in a court of law where someone seeks to enforce his rights || combat in war, killed in action || (horol.) the functioning of the escapement in the movement of a timepiece to take action to begin to be effective || (pop.) going on, where the action is || to initiate practical measures **action-a-ble** *adj.* giving ground for an action at law **action-a-bly** *adv.* [Fr.] **action of trover** \*TROVER **action painting** \*ABSTRACT EXPRESSIONISM **Act-dium** (əktē'ēm) a promontory in N.W. Greece, near which the fleet of Octavian (\*AUGUSTUS) won a decisive victory over the forces of Antony and Cleopatra in 31 B.C. **act-i-vate** (əktīvāt') *pres. part.* activating past and past part. **acti-vated** *v.t.* to make particularly active, esp. by chemical reaction **activated carbon** carbon from which hydrocarbons have been removed to increase its powers of adsorption **activated sludge** sewage aerated and used to hasten the decomposition of raw sewage by bacterial action **acti-vation** (əktīvāshən) *n.* the act or process of activating **activation analysis** 1. (nuclear phys.) technique for identifying and measuring chemical elements by measuring radiation emitted after exposure to radioactivity Cf NEUTRON ACTIVATION ANALYSIS 2. (electr.) treatment of an electron tube to increase emissions. 3. (automotives) addition of water to a battery to make it active **acti-vator** (əktīvātər) *n.* a substance which activates **acti-ve** (əktīv) *adj.* busy, energetic, active in local politics || (of a volcano) erupting from time to time || (commerce) productive, bearing interest, active assets || (gram.) descriptive of a voice or form of the verb which shows the subject as per-

## acuity

former of the action of the verb (cf. PASSIVE) || in or of the active voice [Fr. *actif*] **active duty** the full-time service of members of the armed forces who are not reserves and not retired **active homing** (mil.) homing device in a missile with capability of receiving energy reflected from a target and illuminating the target **active homing guidance** (nul.) a system of homing guidance in which both the source for illuminating the target and the receiver for detecting the energy reflected from the target as the result of illuminating the target are carried within the missile **active list** a roll of service officers available for active service **active mass** the concentration (usually expressed in moles per liter) of a reacting substance **active material** (nuclear phys.) material capable of supporting a fission chain reaction, e.g., plutonium, and certain isotopes of uranium **active service** active duty **active transport** (chem.) movement of a substance across a membrane in a nonnormal direction, e.g., from a low concentration to a higher concentration **activi-sm** (əktīvīzəm) *n.* a theory that calls for militant propaganda action by individuals or the practice (esp. political) of such action **activi-st** (əktīvīst) *n.* someone who takes militant action in the service of a party or doctrine **activi-ty** (əktīvītē) *pl.* **acti-vi-ties** *n.* the state of being active || capacity for being active || (chem.) readiness of a substance to undergo chemical change, depending on the degree of instability of its atomic or molecular structure || the apparent or thermodynamic concentration of a substance || (pl.) ways in which people use their energies, social and cultural activities [Fr. *aktivité*] **activity ratio** (computer) fraction of stored records that are processed or updated **act of God** (law) an accident or catastrophe due to natural causes (e.g. an earthquake, hurricane) which could not be controlled **Act of Settlement** \*SETTLEMENT, ACT OF **Act of Supremacy** \*SUPREMACY, ACT OF **Act of Union** \*UNION, ACT OF **Actor** (əktōr) John Emerich Edward Dalberg, 1st Baron Actor (1834–1902), British historian. His posthumously published works include 'Lectures on Modern History' and 'Lectures on the French Revolution' **actor** (əktōr) *n.* a man who performs a part in a play or film [L. = doer] **actress** (əkt्रis) *n.* a woman actor **Acts of the Apostles** the fifth book in the New Testament. It is variously dated from 62 A.D. to the end of the 1st c. Its authorship is ascribed to St Luke. Together with his gospel it tells the story of the Christian movement from its humble origins in Galilee to its establishment in Rome as a universal Church **actu-al** (əktū'ēl) *adj.* existing as a fact of experience, real as opposed to potential [Fr. *actuel*] **actu-al ground zero** the point on the surface of the earth at, or vertically below, or above, the center of an actual nuclear detonation. abbr AGZ **actu-al-i-ty** (əktū'ēlētē) *pl.* **actu-al-i-ties** *n.* reality || (pl.) realities, things having existence [fr. M.L. *actualitas* (*actualitatēs*)] **actu-al-i-za-tion** (əktū'ēlēzāshən) *n.* the act or process of actualizing **actu-al-i-ze** (əktū'ēlēz) *pres. part.* actualizing past and past part. **actu-al-i-zed** *v.t.* to make actual || v.i. to become actual **actu-al-ly** (əktū'ēlē) *adv.* in fact, really, he pretended to be deaf but actually he was not || strange as it may seem, he actually sells those terrible paintings || at this moment, the government actually in office **actu-ar-i-al** (əktū'ērēēl) *adj.* of an actuary or his activity **actu-ary** (əktū'ērē) *pl.* **actu-ar-ies** *n.* a statistician who estimates risks and probabilities, particularly in insurance, lotteries etc. [fr. L. *actuarius*, clerk] **actu-ate** (əktū'ētē) *pres. part.* **actu-at-ing** past and past part. **actu-at-ed** *v.t.* to put into action or motion, this switch actuates the mechanism || to motivate the actions of (a person), actuated by envy **actu-a-tion** *n.* [fr. M.L. *actuare* (*actuatūs*)] **acu-i-ty** (əkjū'ētē) *n.* shrewdness, acuteness of perception [Fr. *acuité*]

**CONCISE PRONUNCIATION KEY:** (a) ə, cat; ə, car; ɔ, fawn; ei, snake. (e) e, hen; i, sheep; ia, deer; eo, bear. (i) i, fish; ai, tiger; ə, bird. (o) o, ox; au, cow; ou, goat; u, poor; ə, royal. (u) ʌ, duck; u, bull; u, goose; ə, bacillus; ju, cube; x, loch; θ, think; ə, bother; z, Zen; ʒ, corsage; dʒ, savage; ə, orangutan; j, yak; ʃ, fish; tʃ, fetch; ʃ, rabbie; ʌ, reddish. Complete pronunciation key appears inside front cover.